



# SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

Product Name: ALGAECIDE  
Synonym(s):  
Recommended Uses: Algaecide  
SDS Reference: 2

Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: IN THE SWIM  
6010 NW FIRST PLACE 320 INDUSTRIAL DR  
GAINESVILLE, FL 32607 WEST CHICAGO IL 60185  
Tel: 352-378-9696  
24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION



Classification: CORROSIVE  
Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS:  
Skin Corrosion - Causes severe skin burns and eye damage - Category 1B - H314  
Eye Damage - Causes serious eye damage - Category 1 - H318

Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. Store in a well ventilated place. Keep cool and store locked up. Dispose of contents/container in an approved waste disposal plant.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

Ingestion: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

## 3. COMPOSITION

	<u>PERCENT %</u>	<u>CAS #</u>
Chemical Name: Alkyl dimethyl benzyl ammonium chloride (C12-18)	9.96	68391-01-5
Dialkyl methyl benzyl ammonium chloride (C12-18)	<3.0	67-63-0
Isopropanol	>87.0	7732-18-5
Water		

## 4. FIRST AID

If In Eyes: Immediately flush eye(s) with plenty of water. Call a physician immediately.

If on Skin or Clothing: After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately. Take off all contaminated clothing immediately.

If Inhaled: Move to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

If Swallowed: Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Note: Probable mucosal damage may contraindicate the use of gastric lavage.  
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIREFIGHTING MEASURES

Suitable / Unsuitable: Dry powder, water spray or foam.

Extinguishing Media:

Specific Hazards from Chemical: Heating or fire can release toxic gas.



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Special Protective Equipment: Firefighters should wear self-contained breathing apparatus.

Other Information: Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use respirator when performing operations involving potential exposure to vapor of the product.

Methods and Materials for cleanup: Contain spillage, and then collect with non-combustible absorbent material (eg. Sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13). Do not flush into surface water or sanitary sewer system.

## 7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Use good personal hygiene practices. Provide sufficient air exchange and/or exhaust in work rooms. Keep containers tightly closed. To maintain product quality, do not store in heat or direct sunlight.

Storage: Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Store at temperatures <60.0°C. Keep away from food, drink and animal feed stuffs.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: Based upon 50% product and not 10% product:  
Propan-2-ol: CAS Nr: 67-63-0  
ACGIH:  
200 ppm (TWA), 400 ppm (STEL)

NIOSH/GUIDE:  
REL: 400 ppm / 980 mg/m3  
STEL 500 ppm / 1,225 mg/m3

OSHA\_TRANS:  
PEL: 400 ppm / 980 mg/m3

Z1A:  
TWA : 400 ppm / 980 mg/m3  
STEL: 500 ppm / 1,225 mg/m3

CAD ON OEL:  
TWA : 200 ppm  
STEL: 400 ppm

Appropriate Engineering Controls: Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

Individual Protection Measures:  
Eye Protection: Tightly fitting safety goggles or face shield.  
Hand Protection: Suitable material - nitrile rubber. Break through time: > 480 min.  
Skin and Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron and rubber or plastic boots.  
Respiratory Protection: In the case of vapor formation use a respirator with an approved filter.  
Hygiene Measures: Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless to straw colored liquid	Flammability (solid/gas):	No data available
Odor:	Characteristic	Upper/lower Flammability or Exposure limits:	No data available
Odor Threshold:	No data available	Vapor Pressure:	No data available
pH:	6-8 for 10% aqueous solution	Vapor Density:	No data available
Melting Point/Freezing Point:	No data available	Density:	8.512 lbs/gal
		Solubility(ies):	No data available
Initial Boiling Point/Boiling Range:	No data available	Partition Coefficient: n-octanol/water:	No data available
		Auto-ignition Temperature:	No data available
Flash Point:	No data available	Decomposition Temperature:	No data available



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Evaporation Rate: No data available

Viscosity: No data available

## **10. STABILITY AND REACTIVITY**

Stability/Reactivity: Material is stable.

Possibilities of Hazardous Reactions: No data available

Conditions to Avoid: No data available

Incompatible Materials: Reducing agents and strong oxidizers.

Hazardous Decomposition Materials: Nitrogen oxides (Nox); Hydrogen chloride gas; carbon oxides.

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity: PRODUCT TOXICITY: (based upon 50% material)

Likely routes of exposure:

Inhalation

Ingestion

Eyes

Skin

Acute Toxicity:

Acute Dermal Toxicity (LD50): 7100 mg/kg Male Rabbit

Acute Dermal Toxicity (LD50): 6300 mg/kg Female Rabbit

Toxicity data based upon similar product (Quaternary ammonium compound - benzyl-C12-16-alkyldimethyl, chlorides - CAS Nr: 68424-85-1) and not actual product:

Acute oral toxicity (LD50): ca. 344 mg/kg Species: Rat

Acute dermal toxicity (LD50): ca. 3,340 mg/kg Species: Rabbit Exposure time: 24 h

Skin corrosion/irritation: Skin irritation: Corrosive Species: Rabbit Exposure time: 24 h Method: DOT

Serious eye damage/eye irritation: Eye irritation: Corrosive Species: Rabbit Method: DOT

Respiratory or skin sensitization: Sensitization: Test Type: Buehler Test Species: Guinea pig Assessment: Did not cause sensitization on laboratory animals. Method: OECD Test Guideline 406 Result: not sensitizing

Chronic Toxicity: No data available.

Reproductive Toxicity: No data available.

Carcinogenicity: No data available.

Mutagenicity: No data available.

## **12. ECOLOGICAL INFORMATION**

Aquatic Toxicity: No data available.

Avian Toxicity: No data available.

Environmental Hazards: Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Environmental Fate: this product is biodegradable.

## **13. DISPOSAL CONSIDERATIONS**

Disposal: Dispose of in accordance with local regulations. The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Dispose of as unused product.

## **14. TRANSPORTATION INFORMATION**

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT: Not Regulated

IMDG: Not Regulated

IATA: Not recommended to ship via air transportation.



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## 15. REGULATORY INFORMATION

TSCA: USA: Reported in the EPA TSCA Inventory.  
SARA (311, 312): Health: Acute Health Hazard  
SARA 313: This product contains Propan-2-ol (CAS# 67-63-0) which is subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986.  
Right To Know Hazardous Substance List: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. Propan-2-ol: MA, PA, NJ.  
Waste Classification: No data available.  
Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).  
CERCLA Reportable: Not applicable.

Quantity:  
EPA NOTES:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. Following is the hazard information as required on the pesticide label:

SIGNAL WORD: DANGER

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER. Corrosive. Causes irreversible eye damage and skin irritation. Harmful if swallowed or absorbed through skin. Do not get into eyes, on skin or on clothing. Wear protective eyewear (goggles, safety glasses or face shield), protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

PHYSICAL OR CHEMICAL HAZARDS: Do not mix with soap, anionic detergents or oxidizers.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish.

## 16. OTHER INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: No data available

NFPA Rating: No data available

Created On: 5/26/2015  
Revision Date: 6/8/2018

Special Hazard Warning: Not applicable



# SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

Product Name: CLARIFIER  
Synonym(s): Clarifier  
Recommended Uses: For Swimming Pools  
SDS Reference: 29  
Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: IN THE SWIM  
6010 NW FIRST PLACE 320 INDUSTRIAL DR  
GAINESVILLE, FL 32607 WEST CHICAGO IL 60185  
Tel: 352-378-9696  
24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION

Classification: Not subject to GHS classification.  
Signal Word: Not Applicable  
Hazard Statements: Not Applicable  
Precautionary Statements: Not Applicable  
Eye Contact: Not Applicable  
Skin Contact: Not Applicable  
Inhalation: Not Applicable  
Ingestion: Not Applicable

## 3. COMPOSITION

Chemical Name:	PERCENT %	CAS #
Trade Secret		
The specific identity and/or percentages of this product are being withheld as a trade secret. The specific hazards of this product are noted in the applicable sections of this document.		

## 4. FIRST AID

If In Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice if irritation occurs.  
If on Skin or Clothing: Cleansing the skin after exposure is advisable.  
If Inhaled: If large amounts of fumes are inhaled, remove to fresh air and consult a physician.  
If Swallowed: Consult a physician if necessary.  
Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIREFIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media: Does not burn. Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.  
Specific Hazards from Chemical: None known.  
Special Protective Equipment: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.  
Other Information: No data available.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 (Personal Protective Equipment).  
Methods and Materials for cleanup: Spill materials may be absorbed using sand, clay or commercial absorbent. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area by flushing with large amounts of water. Dispose of per guidelines under Section 13: Disposal Considerations

## 7. HANDLING AND STORAGE

Handling: Store in a cool, dry, well-ventilated area. Avoid contact with eyes, skin, and clothing. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove





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clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Storage: Store in original container in a cool, dry and well ventilated area away from direct heat. Do not allow to freeze. Store away from strong oxidizers and strong bases.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: Not applicable.

Appropriate Engineering Controls: Provide adequate ventilation.

Individual Protection Measures: Safety goggles recommended. Avoid skin contact with protective gloves and clothing. Wear chemical resistant gloves. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not required for this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue viscous liquid	Flammability (solid/gas):	No data available
Odor:	Acetic acid, vinegar	Upper/lower Flammability or Exposure limits:	No data available
Odor Threshold:	No data available	Vapor Pressure:	No data available
pH:	3.0 - 4.0	Vapor Density:	No data available
Melting Point/Freezing Point:	Not Applicable	Density:	8.345 lbs/gal
Initial Boiling Point/Boiling Range:	211° F (99° C)	Solubility(ies):	Soluble in water
Flash Point:	No data available	Partition Coefficient: n-octanol/water:	No data available
Evaporation Rate:	No data available	Auto-ignition Temperature:	Will not ignite
		Decomposition Temperature:	No data available
		Viscosity:	No data available

## 10. STABILITY AND REACTIVITY

Stability/Reactivity: Material is stable.

Possibilities of Hazardous Reactions: Hazardous Polymerization: Will Not Occur.

Conditions to Avoid: Freezing temperatures or excess heat.

Incompatible Materials: Strong oxidizing material and strong bases.

Hazardous Decomposition Materials: Decomposition will not occur.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Ingestion, inhalation, no appreciable entry known through intact skin although irritation possible, eye contact. No irritant effect on the skin. No irritant effect on the eyes. No sensitizing effects known. No numerical measures of toxicity data available.

Chronic Toxicity: No data available.

Reproductive Toxicity: No data available.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including NTP, IARC, or OSHA.

Mutagenicity: No data available.

## 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available

Avian Toxicity: No data available

Environmental Hazards: No data available



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## 13. DISPOSAL CONSIDERATIONS

Disposal: If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.  
 Container Disposal: Rinse original container with water before disposal. Container can be disposed of with household waste.

## 14. TRANSPORTATION INFORMATION

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT: Not Regulated  
 IMDG: Not Regulated  
 IATA: Not recommended to ship via air transportation.

## 15. REGULATORY INFORMATION

TSCA: The substances in this preparation are included on or exempted from the TSCA 8(b) inventory (40 CFR 710) or are not required to be listed on the TSCA Chemical inventory.  
 SARA (311, 312): Not reportable  
 SARA 313: Not reportable  
 Right To Know Hazardous Substance List: No data available  
 Waste Classification: If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.  
 Workplace Classification: This product is NOT considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).  
 CERCLA Reportable Quantity: Not reportable

## 16. OTHER INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: No data available

NFPA Rating: No data available

Special Hazard Warning: Not applicable

Created On: 5/21/2015  
 Revision Date: 6/12/2018

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according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

## IN THE SWIM POOL SHOCK

Version 1.0

Revision Date 2019.04.16

Print Date 2019.04.26

### SECTION 1. IDENTIFICATION

Product name : IN THE SWIM POOL SHOCK

#### Manufacturer or supplier's details

Company : Arch Chemicals, Inc.  
1200 Bluegrass Lakes Parkway  
Alpharetta, GA  
30004  
United States of America (USA)

E-mail address : sds@lonza.com  
Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300,  
CHEMTREC WORLD-WIDE: +1-703-527-3887.

#### Recommended use of the chemical and restrictions on use

Recommended use : Water treatment chemical

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Oxidizing solids : Category 2  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 3  
Skin corrosion : Category 1B  
Serious eye damage : Category 1  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H331 Toxic if inhaled.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.



## IN THE SWIM POOL SHOCK

Precautionary statements : **Prevention:**  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220 Keep/Store away from clothing/ combustible materials.  
 P221 Take any precaution to avoid mixing with combustibles.  
 P260 Do not breathe vapours.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P363 Wash contaminated clothing before reuse.  
 P370 + P378 In case of fire: Use water spray to extinguish.  
**Storage:**  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
**Disposal:**  
 P501 Dispose of contents/container in accordance with local regulation.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

### Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
Calcium hypochlorite	7778-54-3	65 - 75
Calcium chlorate	10137-74-3	0 - 5
Calcium chloride	10043-52-4	0 - 5
Calcium dihydroxide	1305-62-0	0 - 4

## SECTION 4. FIRST AID MEASURES

General advice : Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## IN THE SWIM POOL SHOCK

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If inhaled	:	IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
In case of skin contact	:	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
In case of eye contact	:	IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed	:	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Probable mucosal damage may contraindicate the use of gastric lavage.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water only. Do not use dry extinguishers containing ammonium compounds.
Specific hazards during firefighting	:	Strong oxidizer
Further information	:	Use water to cool containers exposed to fire. See Section 6 for protective equipment for fire fighting.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air respirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment. Hazardous concentrations in air may be found in local spill area and immediately downwind. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Contact 1-800-654-6911 immediately. DANGER: All spills of this product should be treated as contaminated. Contaminated product may initiate a chemical reaction that may spontane-
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## IN THE SWIM POOL SHOCK

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ously ignite any combustible material present, resulting in a fire of great intensity. In case of a spill, separate all spilled product from packaging, debris and other material. Using a clean broom or shovel, place all spilled product into plastic bags, and place those bags into a clean, dry disposal container, properly marked and labeled. Disposal containers made of plastic or metal are recommended. Do not seal disposal containers tightly. Immediately remove all product in disposal containers to an isolated area outdoors. Place all damaged packaging material in a disposal container of water to assure decontamination (i.e. removal of all product) before disposal. Place all undamaged packaging in a clean, dry container properly marked and labeled. Call for disposal procedures. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal. Do not flush into surface water or sanitary sewer system. Avoid dust formation.

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## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid inhalation of dust and fumes. Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Remove contaminated clothing and wash before reuse.
- Conditions for safe storage : Keep product tightly sealed in original containers. Store product in a cool, dry, well-ventilated area. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including, e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.
- Materials to avoid : Do not allow product to come in contact with other materials, including e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. A chemical reaction with such substances can cause a fire of great intensity.
- Further information on storage stability : Average daily temperature of 35° C / 95° F. Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

## IN THE SWIM POOL SHOCK

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Calcium dihydroxide	1305-62-0	TWA	5 mg/m3	ACGIH
		REL	5 mg/m3	NIOSH/GUIDE
		PEL (Total dust.)	15 mg/m3	OSHA_TRANS
		PEL (Respirable fraction.)	5 mg/m3	OSHA_TRANS
		TWA	5 mg/m3	Z1A

**Engineering measures** : Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

### Personal protective equipment

**Respiratory protection** : Wear a NIOSH approved respirator if levels above the exposure limits are possible.  
A NIOSH approved full-face air purifying respirator equipped with combination chlorine/P100 cartridges. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

**Hand protection**

**Remarks** : Wear impervious gloves to avoid skin contact. A full impervious suit is recommended if exposure is possible to a large portion of the body.

**Eye protection** : Use chemical goggles.

**Skin and body protection** : Neoprene, Nitrile, Natural rubber (This includes: gloves, boots, apron, protective suit)

**Protective measures** : An eye wash and safety shower should be provided in the immediate work area.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : free flowing, granular

**Colour** : off-white

**Odour** : Chlorine-like

**Odour Threshold** : no data available

**pH** : 10.4 - 10.8 (77 °F / 25 °C)  
Concentration: 1 %

**Melting point/freezing point** : Not applicable



**IN THE SWIM POOL SHOCK**

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Boiling point/boiling range	:	no data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	This product is chemically reactive with many substances. Any contamination of the product with other substances by spill or otherwise may result in a chemical reaction and fire.
Flammability (liquids)	:	no data available
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	no data available
Relative density	:	Not applicable
Water solubility	:	ca. 180 g/l (77 °F / 25 °C)
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Oxidizing properties	:	Oxidizing

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**SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous reactions	:	NFPA Oxidizer Class: Meets the criteria of an NFPA Class 3 Oxidizer
Conditions to avoid	:	Do not store next to heat source, in direct sunlight, or elevated storage temperature. Do not store where the daily average temperature exceeds 95 °F. Prevent ingress of humidity and moisture into container or package. Always close the lid.
Incompatible materials	:	This product is chemically reactive with many substances, including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive, flammable or combustible materials. Do not allow product to contact any foreign matter, including other water treatment products. Contamination or improper use may cause a fire of great intensity, explosion or the release of toxic gases. If product is exposed to small amounts of water, it can react violently to produce heat and toxic gases and spatter.

## IN THE SWIM POOL SHOCK

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Hazardous decomposition products : Chlorine

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### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, skin, eyes, ingestion

#### Acute toxicity

Acute oral toxicity : LD50 (Rat): approximately 800 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.04 mg/l  
Exposure time: 1 h  
Remarks: (Nose Only)

LC50 (Rat): > 0.51 mg/l  
Exposure time: 4 h  
Remarks: (Nose Only)

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

#### Skin corrosion/irritation

Remarks: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION.  
WET MATERIAL CAUSES SKIN BURNS.

#### Serious eye damage/eye irritation

Result: Corrosive to eyes

#### Respiratory or skin sensitisation

Remarks: This material is not known or reported to be a skin or respiratory sensitizer.

#### Carcinogenicity

##### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

##### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

##### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### Further information

Remarks: no data available

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### SECTION 12. ECOLOGICAL INFORMATION

## IN THE SWIM POOL SHOCK

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### Ecotoxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Highly toxic to fish and other aquatic organisms.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.  
As a hazardous solid waste, it must be disposed of in accordance with local, state and federal regulations.

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## SECTION 14. TRANSPORT INFORMATION

### DOT

**UN number** : 2880  
**Proper shipping name** : Calcium hypochlorite, hydrated mixtures  
**Transport hazard class** : 5.1  
**Packing group** : II  
Labels : 5.1  
Emergency Response Guidebook : 140  
Number  
**Environmental hazards** : yes

## IN THE SWIM POOL SHOCK

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### TDG

**UN number** : 2880  
**Proper shipping name** : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Labels** : 5.1  
**Environmental hazards** : yes

### IATA

**UN number** : 2880  
**Proper shipping name** : Calcium hypochlorite, hydrated mixture  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Labels** : 5.1  
**Environmental hazards** : yes

### IMDG

**UN number** : 2880  
**Proper shipping name** : Calcium hypochlorite, hydrated mixture  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Labels** : 5.1  
**EmS Number 1** : F-H  
**EmS Number 2** : S-Q  
**Environmental hazards** : Marine pollutant: yes

### ADR

**UN number** : 2880  
**Proper shipping name** : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Classification Code** : O2  
**Hazard Identification Number** : 50  
**Labels** : 5.1  
**Environmental hazards** : yes

### RID

**UN number** : 2880  
**Proper shipping name** : CALCIUM HYPOCHLORITE, HYDRATED MIXTURE  
**Transport hazard class** : 5.1  
**Packing group** : II  
**Classification Code** : O2  
**Hazard Identification Number** : 50  
**Labels** : 5.1  
**Environmental hazards** : yes

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable



## IN THE SWIM POOL SHOCK

### SECTION 15. REGULATORY INFORMATION

**This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.**

EPA Registration number : 1258-913-51432  
 Signal word : DANGER!  
 Hazard statements : Highly Corrosive.  
 Causes eye and skin damage.  
 May be fatal if swallowed.  
 Irritating to nose and throat.  
 This pesticide is toxic to fish and aquatic organisms.

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Calcium hypochlorite	7778-54-3	10	13

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

##### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

##### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

##### Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Components	CAS-No.	Component RQ
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## IN THE SWIM POOL SHOCK

		(lbs)
Calcium hypochlorite	7778-54-3	10

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Components	CAS-No.	Concentration
Calcium hypochlorite	7778-54-3	65 - 75 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

Components	CAS-No.
Calcium hypochlorite	7778-54-3
Calcium chlorate	10137-74-3
Calcium carbonate	471-34-1
Calcium dihydroxide	1305-62-0

#### Pennsylvania Right To Know

Components	CAS-No.
Calcium hypochlorite	7778-54-3
Sodium chloride	7647-14-5
Calcium chloride	10043-52-4
Calcium chlorate	10137-74-3
Calcium carbonate	471-34-1
Calcium dihydroxide	1305-62-0

#### New Jersey Right To Know

Components	CAS-No.
Calcium hypochlorite	7778-54-3
Sodium chloride	7647-14-5
Calcium chloride	10043-52-4
Calcium chlorate	10137-74-3
Calcium carbonate	471-34-1
Calcium dihydroxide	1305-62-0

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Canadian lists

#### NPRI

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

#### The components of this product are reported in the following inventories:

TSCA : This is an EPA registered pesticide.

## SECTION 16. OTHER INFORMATION

## IN THE SWIM POOL SHOCK

### Full text of other abbreviations

ACGIH	:	US. ACGIH Threshold Limit Values
NIOSH/GUIDE	:	US. NIOSH: Pocket Guide to Chemical Hazards
OSHA_TRANS	:	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Z1A	:	US. OSHA Table Z-1-A (29 CFR 1910.1000)

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Revision Date : 2019.04.16

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Date format : yyyy/mm/dd

US / EN



# SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

Product Name: STAIN AWAY  
 Synonym(s): HEDP; 1-Hydroxyethylidene-1, 1-diphosphonic acid  
 Recommended Uses: Sequestering Agent  
 SDS Reference: 35

Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: IN THE SWIM  
 6010 NW FIRST PLACE 320 INDUSTRIAL DR  
 GAINESVILLE, FL 32607 WEST CHICAGO IL 60185  
 Tel: 352-378-9696  
 24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION

Classification: CORROSIVE  
 TARGET ORGAN TOXICITY (SINGLE)



Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS:  
 Eye Damage - Causes serious eye damage - Category 1 - H318  
 Skin Irritation - Causes severe skin burns and eye damage - Category 1 - H314  
 Specific target organ - single exposure - May cause damage to (kidney, liver, spleen) - Category 2 - H371  
 PHYSICAL HAZARDS:  
 Corrosive to many metals

Precautionary Statements: Corrosive. Causes severe skin burns and eye damage. May cause damage to kidney, liver and/or spleen. Wear protective gloves, eye protection and face protection when handling this product. Do not breathe vapors/gas/mist or spray. Wash hands thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.  
 Do not store product in mild steel, carbon steel, aluminum or other metals.

Eye Contact: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Wash with plenty of soap and water. Call a physician if irritation persists.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: Not data available

## 3. COMPOSITION

Chemical Name:	PERCENT %	CAS #
1-Hydroxyethylidene-1, 1-diphosphonic acid	13 - 15	2809-21-4
Phosphorous Acid	0 - 1	10294-56-1

## 4. FIRST AID

If In Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes. If easy to do, remove any contact lenses. Get immediate medical attention.

If on Skin or Clothing: Immediate first aid is not likely to be required. Wash with large amounts of water. If irritation persists, seek medical attention.

If Inhaled: Immediate first aid is not likely to be required. If symptoms occur, remove to fresh air.

If Swallowed: Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIREFIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media: Recommended extinguishing media; water spray

Specific Hazards from Chemical: Hazardous decomposition: Carbon Monoxide, Carbon Dioxide

Special Protective Equipment: Firefighters, and other exposed, wear self contained breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection.





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Other Information: No data available.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing. See Section 8 for Personal Protective Equipment.

Methods and Materials for cleanup: Warn everybody in sewers, basements and workpits of danger of corrosive hazard.  
Large Quantities: Prevent liquid entering basements and workpits. Keep out of drains and watercourses. Contain liquid spillage with sandbags or other means to prevent entry into drains Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.  
Large Spillage: Absorb in earth or sand. Sweep up into containers for disposal. Do not use metal containers for spilled material. Flush spill area with water.  
Small Spillage: Treat with hydrated lime or soda ash. Wash away small spills with plenty of water.

## 7. HANDLING AND STORAGE

Handling: Keep container closed. Open and handle containers with care. Empty product containers may contain residue. Do not reuse empty containers without commercial cleaning or reconditioning.

Storage: Store in a cool, well ventilated place away from incompatible materials. Do not allow product to freeze. Incompatible material: Attacks many metals, corrosive aluminum and mild steel.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: No workplace exposure limits have been established for this product.

Appropriate Engineering Controls: Provide natural or mechanical ventilation to minimize exposure. If practical, use local exhaust ventilation at sources of air contamination such as processing equipment.

Individual Protection Measures: Respiratory Protection - Avoid breathing vapor or mist. Use approved respiratory protection equipment when airborne exposure is excessive. If used, full face piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.  
Eyes Protection - Wear chemical goggles. Have eye wash facilities immediately available at any location where eye contact can occur.  
Skin Protection - Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash thoroughly after handling. Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.  
Other Work Practices - Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to pale yellow liquid.	Flammability (solid/gas):	Not Applicable
Odor:	Mild odor	Upper/lower Flammability or	Not Applicable
Odor Threshold:	No data available	Exposure limits:	
pH:	<2	Vapor Pressure:	No data available
Melting Point/Freezing Point:	No data available	Vapor Density:	No data available
Initial Boiling Point/Boiling Range:	No data available	Density:	9.76 lbs/gal
Flash Point:	Nonflammable	Solubility(ies):	Soluble in water
Evaporation Rate:	No data available	Partition Coefficient: n-octanol/water:	No data available
		Auto-ignition Temperature:	Not Applicable
		Decomposition Temperature:	No data available
		Viscosity:	No data available

## 10. STABILITY AND REACTIVITY

Stability/Reactivity: Material is stable under normal conditions. Substantial heat is evolved when mixed with alkali.

Possibilities of Hazardous Reactions: Hazardous Polymerization: Will Not Occur.

Conditions to Avoid: Contact with common metals produces flammable hydrogen gas.



# SAFETY DATA SHEET

Incompatible Materials: Strong oxidizing agents and strong bases.  
Attacks many metals. Corrosive to aluminum and mild steel.

Hazardous Decomposition Materials: Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine. Carbon dioxide.

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity: COMPONENT TOXICITY:  
1-Hydroxyethylidene-1,1-diphosphonic acid:  
Oral LD50: 2400 mg/kg Rat  
Dermal LD50: 10000 mg/kg Rabbit

Acute Toxicity Estimates (ATE):  
Skin Corrosion - Category 2 - Causes skin irritation  
Serious Eye Damage - Category 1 - Causes serious eye damage.

No other toxicity data is available.

Chronic Toxicity: No data available.

Reproductive Toxicity: No data available.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Mutagenicity: No data available.

## **12. ECOLOGICAL INFORMATION**

Aquatic Toxicity: (Based upon 60% HEDP)  
Bluegill - 96 h LC50: 868 mg/l  
Rainbow trout - 96 h LC50: 368 mg/l  
Daphnia Magna - 48 h EC50: 527 mg/l

Algae: 96h EC50: 3 mg/l (Algae growth inhibition is due to the ability of HEDP to complex materials and not to toxicity per se.)

Avian Toxicity: No data available.

Environmental Hazards: No data available.

## **13. DISPOSAL CONSIDERATIONS**

Disposal: Observe all federal, state and local regulations when disposing of this product/container. Reference guidelines under 40 CFR Parts 261.  
Empty containers may retain product residue. Empty drums should be completely drained, properly bunged and promptly returned to drum reconditioner, or properly disposed of.

## **14. TRANSPORTATION INFORMATION**

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT: UN3265, Corrosive liquid, acidic, organic, n.o.s. (1-Hydroxyethylidene-1,1-diphosphonic acid), 8, PG II

IMDG: UN3265, Corrosive liquid, acidic, organic, n.o.s. (1-Hydroxyethylidene-1,1-diphosphonic acid), 8, PG II, EMS: F-A, S-B

IATA: Not recommended to ship via air transportation.

## **15. REGULATORY INFORMATION**

TSCA: USA: Reported in the EPA TSCA Inventory.

SARA (311, 312): Acute Health Hazard / Chronic Health Hazard

SARA 313: None of the ingredients are listed.

Right To Know Hazardous Substance List: California Proposition 65: not listed.  
New Jersey - Phosphorous Acid >1%

Waste Classification: No data available.

Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Reportable Quantity: Not applicable.





# SAFETY DATA SHEET

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## **16. OTHER INFORMATION**

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: No data available

NFPA Rating: No data available

Created On: 5/27/2015  
Revision Date: 6/12/2018

Special Hazard Warning: Not applicable